TRANSMITTAL LETTER TO		ATTORNEY'S DOCKET NUMBER
DESIGNATED/ELECTED	OFFICE (DO/EO/US)	19240.171US3 U.S. APPLICATION NO. (if known, see 37 CFR 1.5)
CONCERNING A SUBMISSION		10/582298
INTERNATIONAL APPLICATION NO. PCT/US2004/003074	INTERNATIONAL FILING DATE 4 February 2004	PRIORITY DATE CLAIMED 15 December 2003
TITLE OF INVENTION		To Boscinba 2000
FAST QUANTUM MECHANICAL INITIA APPLICANT(S) FOR DO/EO/US	AL STATE APPROXIMATION	
Anargyros PAPAGEORGIOU et al.		
Applicant herewith submits to the United Sta	tes Designated/Elected Office (DO/EO	/US) the following items and other information:
1. This is a FIRST submission of item	s concerning a submission under 35 U	.S.C. 371.
2. x This is a SECOND or SUBSEQUE	NT submission of items concerning a s	ubmission under 35 U.S.C. 371.
3. This is an express request to begin include items (5), (6), (9) and (21) i	national examination procedures (35 t ndicated below.	J.S.C. 371(f)). The submission must
4. The US has been elected (Article 3	1).	
5. A copy of the International Applicat	ion as filed (35 U.S.C. 371 (c)(2))	
a. is attached hereto (required onl	y if not communicated by the Internatio	onal Bureau).
b. has been communicated by the	International Bureau.	-9-
c. is not required, as the application	on was filed in the United States Receiv	ving Office (RO/US).
6. An English language translation of	the International Application as filed (3	5 U.S.C. 371(c)(2)).
a. is attached hereto.		
b. has been previously submitted	under 35 U.S.C. 154(d)(4).	
7. Amendments to the claims of the Ir	nternational Application under PCT Artic	cle 19 (35 U.S.C. 371(c)(3))
a. are attached hereto (required o	nly if not communicated by the Internat	ional Bureau).
b. have been communicated by the	e International Bureau.	
c. have not been made; however,	the time limit for making such amendm	nents has NOT expired.
d. have not been made and will no	ot be made.	
8. An English language translation of	the amendments to the claims under P	CT Article 19 (35 U.S.C. 371(c)(3)).
9. x An oath or declaration of the invent	or(s) (35 U.S.C. 371(c)(4)).	
10. An English language translation of Article 36 (35 U.S.C. 371(c)(5)).	the annexes of the International Prelim	inary Examination Report under PCT
Items 11 to 20 below concern docur	ment(s) or information included:	
11. An Information Disclosure Staten	nent under 37 CFR 1.97 and 1.98.	
12. An assignment document for recor	ding. A separate cover sheet in compli	ance with 37 CFR 3.28 and 3.31 is included.
13. A preliminary amendment.	•	
14. x An Application Data Sheet under	37 CFR 1.76.	•
15. A substitute specification.		•
16. A power of attorney and/or change	e of address letter.	
17. A computer-readable form of the s	sequence listing in accordance with Po	CT Rule 13ter.2 and 37 CFR 1.821 – 1.825.
18. A second copy of the published In	ternational Application under 35 U.S.0	C. 154(d)(4).
19. A second copy of the English lang	uage translation of the international a	pplication under 35 U.S.C. 154(d)(4).
	•	

PTO-1390 (Rev. 09-2006)
Approved for use through 03/31/2007. OMB 0651-0021
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

	U.S. APPLICATIO				INTERNATIONAL APPLICATION NO. PCT/US2004/003074		ATTORNEY'S DOCKET NUMBER 19240.171US3	
	20. x Other	er items or information: 5 Month Petition for Extension of Time, Part 2 Copy				y of Notice, Return Receipt Postcard		
	L —	•		been submitt			CALCULATION	S PTO USEONLY
	21. Basi	c nationa	I fee (3	7 CFR 1.492(a))	\$300	\$	
	If the written opin	he written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)						
	23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)					\$		
		TOTAL O					\$ 0.0	0
	sequer electro	nce listing i nic mediun	in complia n) (37 CF	ance with 37 CFR FR 1.492(j)).	ed in paper over 100 shee 1.821(c) or (e) or computes to of paper or fraction the	ter program listing in an		
	Total Sheets	Extra Sh	eets		additional 50 or fraction up to a whole number)	RATE		
	- 100 =		/50 =			x \$250.00	\$	
	after the date of	commence	ement of	the national stage	e, examination fee, or the (37 CFR 1.492(h)).		\$ 130.0	0
	CLAIMS Total clair		NUM	1BER FILED - 20 =	NUMBER EXTRA 0	x 50.00	- 0.0	0
	Independent			-3=	0	x 200.00	0.0	
	MULTIPLE DEP	ENDENT	CLAIM(S) (if applicable)		+ .	0.0	-
					TOTAL OF A	BOVE CALCULATIONS =	\$ 130.0	0
	X Applican	t claims sn	nall entity	status. See 37 0	CFR 1.27. Fees above ar	e reduced by 1/2.	65.0	0
						SUBTOTAL =	\$ 65.0	0
•	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						\$ -	
	Foo for recent			107.077		TOTAL NATIONAL FEE =	\$	0.00
	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					must be accompanied +	\$	
					TO	TAL FEES ENCLOSED =	\$	4.445.00
09/20/2007 LLANDGR	1-00000062-06	10219	105822	98	10	TAL FEES ENGLOSED =	Amount to be	1,145.00
01 FC:2617	65.00 DA						refunded:	\$
							Amount to be charged	\$

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a. A check in the amount of \$ to cover the about				
A chock in the amount of \$ to cover the abo	ve fees is enclosed.			
b. X Please charge my Deposit Account No. 08-0219 in the am A duplicate copy of this sheet is enclosed.	ount of \$ 1,145.00 to cover the above fees.			
c. x The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 08-0219 . A duplicate copy of this sheet is enclosed.				
d. Fees are to be charged to a credit card. WARNING: Information on should not be included on this form. Provide credit card informat	d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038			
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed an granted to restore the International Application to pending status.				
SEND ALL CORRESPONDENCE TO:	Michael Halas			
SEND ALL CORRESPONDENCE TO.	SIGNATURE			
	•			
	Michael O. Halas			
·	NAME			
CUSTOMER NUMBER: 56949				
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Attorney Docket No.: 19240.171US3

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV 900109807 US in an envelope addressed to:

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

on	September 18, 2007
	Date

Michael Halas	
Signatu	re
Michael O.	Halas
Typed or printed name of pe	rson signing Certificate
59,371	(212) 230-8800
Registration Number, if applicable	Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify

each submitted paper.

Transmittal Letter to the United States Designated-Elected Office (3 pages)

Declaration (2 pages)

Supplemental Application Data Sheet (3 pages)

Petition for Extension of Time (1 page)

Part 2 Copy of Notice (2 pages)

Charge \$1,145.00 to deposit account 08-0219

Return Receipt Postcard



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

I.A. FILING DATE

ATTY. DOCKET NO. U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT 19240.171 US3 10/582,298 Anargyros Papageorgiou

INTERNATIONAL APPLICATION NO.

PCT/US04/03074

56949 WilmerHale/Columbia University 399 PARK AVENUE NEW YORK, NY 10022

RECEIVED

FFB 26 2007

 \mathbf{WCPHD}

02/04/2004 12/15/2003

PRIORITY DATE

CONFIRMATION NO. 3844 371 FORMALITIES LETTER *OC000000022552866*

Date Mailed: 02/20/2007

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 06/12/2006
- Copy of the International Search Report filed on 06/12/2006
- Small Entity Statement filed on 06/12/2006
- U.S. Basic National Fees filed on 06/12/2006
- Priority Documents filed on 06/12/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$65 for a Small Entity:

\$65 Surcharge.

WILMER CUTCLER PICKERING	
HALE And DORR LLP DOCKETING	
RE: 19240, 171 453	
Action Dece: 4/20/07 Action to be Taken: MISSING	Rec
Docketed By: Ag Cn:	1.
7 121	101

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

CHRISTINE S WASHINGTON

Telephone: (703) 308-9140 EXT 228

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	T	INTERNATIONAL APPLICATION NO.	ATTY, DOCKET NO.
			
10/582,298		PCT/US04/03074	19240.171 US3

FORM PCT/DO/EO/905 (371 Formalities Notice)